

Michael Veit

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102 papers	2,828 citations	32 h-index	50 g-index
108 ext. papers	3,334 ext. citations	4.8 avg, IF	5.47 L-index

#	Paper	IF	Citations
102	COVID-19: Epidemiology, Evolution, and Cross-Disciplinary Perspectives. <i>Trends in Molecular Medicine</i> , 2020 , 26, 483-495	11.5	304
101	Multiple palmitoylation of synaptotagmin and the t-SNARE SNAP-25. <i>FEBS Letters</i> , 1996 , 385, 119-23	3.8	197
100	Comparison of Severe Acute Respiratory Syndrome Coronavirus 2 Spike Protein Binding to ACE2 Receptors from Human, Pets, Farm Animals, and Putative Intermediate Hosts. <i>Journal of Virology</i> , 2020 , 94,	6.6	90
99	S acylation of the hemagglutinin of influenza viruses: mass spectrometry reveals site-specific attachment of stearic acid to a transmembrane cysteine. <i>Journal of Virology</i> , 2008 , 82, 9288-92	6.6	80
98	Novel Influenza D virus: Epidemiology, pathology, evolution and biological characteristics. <i>Virulence</i> , 2017 , 8, 1580-1591	4.7	74
97	FLIM-FRET and FRAP reveal association of influenza virus haemagglutinin with membrane rafts. <i>Biochemical Journal</i> , 2010 , 425, 567-73	3.8	68
96	Lateral distribution of the transmembrane domain of influenza virus hemagglutinin revealed by time-resolved fluorescence imaging. <i>Journal of Biological Chemistry</i> , 2009 , 284, 15708-16	5.4	66
95	The SNARE Ykt6 mediates protein palmitoylation during an early stage of homotypic vacuole fusion. <i>EMBO Journal</i> , 2004 , 23, 45-53	13	65
94	Association of influenza virus proteins with membrane rafts. <i>Advances in Virology</i> , 2011 , 2011, 370606	1.9	64
93	The alpha-subunits of G-proteins G12 and G13 are palmitoylated, but not amidically myristoylated. <i>FEBS Letters</i> , 1994 , 339, 160-4	3.8	59
92	Palmitoylation of virus proteins. <i>Biology of the Cell</i> , 2012 , 104, 493-515	3.5	58
91	The relevance of salt bridges for the stability of the influenza virus hemagglutinin. <i>FASEB Journal</i> , 2007 , 21, 995-1002	0.9	55
90	Interspecies Transmission, Genetic Diversity, and Evolutionary Dynamics of Pseudorabies Virus. <i>Journal of Infectious Diseases</i> , 2019 , 219, 1705-1715	7	54
89	Retarded processing of influenza virus hemagglutinin in insect cells. <i>Virology</i> , 1991 , 180, 159-65	3.6	51
88	Palmitoylation of the 25-kDa synaptosomal protein (SNAP-25) in vitro occurs in the absence of an enzyme, but is stimulated by binding to syntaxin. <i>Biochemical Journal</i> , 2000 , 345, 145-151	3.8	50
87	Cytoplasmic tail length influences fatty acid selection for acylation of viral glycoproteins. <i>Biochemical Journal</i> , 1996 , 318 (Pt 1), 163-72	3.8	50
86	Intrinsic membrane association of the cytoplasmic tail of influenza virus M2 protein and lateral membrane sorting regulated by cholesterol binding and palmitoylation. <i>Biochemical Journal</i> , 2011 , 437, 389-97	3.8	46

85	Hemagglutinin of influenza virus partitions into the nonraft domain of model membranes. <i>Biophysical Journal</i> , 2010 , 99, 489-98	2.9	44
84	Unique self-palmitoylation activity of the transport protein particle component Bet3: a mechanism required for protein stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12701-6	11.5	44
83	Synaptobrevin 2 is palmitoylated in synaptic vesicles prepared from adult, but not from embryonic brain. <i>Molecular and Cellular Neurosciences</i> , 2000 , 15, 408-16	4.8	43
82	Timing of palmitoylation of influenza virus hemagglutinin. <i>FEBS Letters</i> , 1993 , 336, 243-7	3.8	43
81	Palmitoylation of rhodopsin with S-protein acyltransferase: enzyme catalyzed reaction versus autocatalytic acylation. <i>Lipids and Lipid Metabolism</i> , 1998 , 1394, 90-8		42
80	The hemagglutinating glycoproteins of influenza B and C viruses are acylated with different fatty acids. <i>Virology</i> , 1990 , 177, 807-11	3.6	42
79	Hemagglutinin-esterase-fusion (HEF) protein of influenza C virus. <i>Protein and Cell</i> , 2016 , 7, 28-45	7.2	40
78	Signal peptide cleavage from GP5 of PRRSV: a minor fraction of molecules retains the decoy epitope, a presumed molecular cause for viral persistence. <i>PLoS ONE</i> , 2013 , 8, e65548	3.7	39
77	Palmitoylation of influenza virus proteins. <i>Biochemical Society Transactions</i> , 2013 , 41, 50-5	5.1	38
76	Genomic Epidemiology, Evolution, and Transmission Dynamics of Porcine Deltacoronavirus. <i>Molecular Biology and Evolution</i> , 2020 , 37, 2641-2654	8.3	36
75	The polybasic region is not essential for membrane binding of the matrix protein M1 of influenza virus. <i>Virology</i> , 2009 , 383, 150-5	3.6	35
74	Site-specific attachment of palmitate or stearate to cytoplasmic versus transmembrane cysteines is a common feature of viral spike proteins. <i>Virology</i> , 2010 , 398, 49-56	3.6	35
73	Linker and/or transmembrane regions of influenza A/Group-1, A/Group-2, and type B virus hemagglutinins are packed differently within trimers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 1843-54	3.8	34
72	Different palmitoylation of paramyxovirus glycoproteins. <i>Virology</i> , 1989 , 168, 173-6	3.6	33
71	Membrane proteins of arterivirus particles: structure, topology, processing and function. <i>Virus Research</i> , 2014 , 194, 16-36	6.4	32
70	Site-specific S-acylation of influenza virus hemagglutinin: the location of the acylation site relative to the membrane border is the decisive factor for attachment of stearate. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34978-89	5.4	32
69	Enzymatic depalmitoylation of viral glycoproteins with acyl-protein thioesterase 1 in vitro. <i>Virology</i> , 2001 , 288, 89-95	3.6	32
68	Alteration of protein levels during influenza virus H1N1 infection in host cells: a proteomic survey of host and virus reveals differential dynamics. <i>PLoS ONE</i> , 2014 , 9, e94257	3.7	29

67	Electron cryomicroscopy reveals different F1+F2 protein States in intact parainfluenza virions. <i>Journal of Virology</i> , 2008 , 82, 3775-81	6.6	29
66	A histidine residue of the influenza virus hemagglutinin controls the pH dependence of the conformational change mediating membrane fusion. <i>Journal of Virology</i> , 2014 , 88, 13189-200	6.6	28
65	Intrinsic cytoskeleton-dependent clustering of influenza virus M2 protein with hemagglutinin assessed by FLIM-FRET. <i>Journal of Virology</i> , 2010 , 84, 12445-9	6.6	28
64	Palmitoylation sites and processing of synaptotagmin I, the putative calcium sensor for neurosecretion. <i>FEBS Letters</i> , 2003 , 544, 57-62	3.8	26
63	Palmitoylation of the 25-kDa synaptosomal protein (SNAP-25) in vitro occurs in the absence of an enzyme, but is stimulated by binding to syntaxin. <i>Biochemical Journal</i> , 2000 , 345, 145	3.8	26
62	The cholesterol-binding motif of the HIV-1 glycoprotein gp41 regulates lateral sorting and oligomerization. <i>Cellular Microbiology</i> , 2014 , 16, 1565-81	3.9	25
61	Assessment of fusogenic properties of influenza virus hemagglutinin deacylated by site-directed mutagenesis and hydroxylamine treatment. <i>Virology</i> , 1995 , 210, 20-8	3.6	24
60	eGFP-pHsens as a highly sensitive fluorophore for cellular pH determination by fluorescence lifetime imaging microscopy (FLIM). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 1581-93	4.6	23
59	Differential fatty acid selection during biosynthetic S-acylation of a transmembrane protein (HEF) and other proteins in insect cells (Sf9) and in mammalian cells (CV1). <i>Journal of Biological Chemistry</i> , 1996 , 271, 23607-10	5.4	23
58	Growth of influenza A virus is not impeded by simultaneous removal of the cholesterol-binding and acylation sites in the M2 protein. <i>Journal of General Virology</i> , 2012 , 93, 282-292	4.9	21
57	Toward the identification of ZDHHC enzymes required for palmitoylation of viral protein as potential drug targets. <i>Expert Opinion on Drug Discovery</i> , 2020 , 15, 159-177	6.2	21
56	The human SNARE protein Ykt6 mediates its own palmitoylation at C-terminal cysteine residues. <i>Biochemical Journal</i> , 2004 , 384, 233-7	3.8	20
55	Structural investigation of influenza virus hemagglutinin membrane-anchoring peptide. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 547-52	1.9	19
54	Analysis of S-acylation of proteins. <i>Methods in Molecular Biology</i> , 2008 , 446, 163-82	1.4	19
53	Cholesterol Binding to the Transmembrane Region of a Group 2 Hemagglutinin (HA) of Influenza Virus Is Essential for Virus Replication, Affecting both Virus Assembly and HA Fusion Activity. <i>Journal of Virology</i> , 2019 , 93,	6.6	17
52	Genetic Evolution and Molecular Selection of the HE Gene of Influenza C Virus. <i>Viruses</i> , 2019 , 11,	6.2	17
51	Palmitoylation of the Alphacoronavirus TGEV spike protein S is essential for incorporation into virus-like particles but dispensable for S-M interaction. <i>Virology</i> , 2014 , 464-465, 397-405	3.6	17
50	Lipid domain association of influenza virus proteins detected by dynamic fluorescence microscopy techniques. <i>Cellular Microbiology</i> , 2013 , 15, 179-89	3.9	17

49	A cholesterol consensus motif is required for efficient intracellular transport and raft association of a group 2 HA from influenza virus. <i>Biochemical Journal</i> , 2015 , 465, 305-14	3.8	17
48	Acylation and cholesterol binding are not required for targeting of influenza A virus M2 protein to the hemagglutinin-defined budzone. <i>FEBS Letters</i> , 2014 , 588, 1031-6	3.8	16
47	Equine arteritis virus is delivered to an acidic compartment of host cells via clathrin-dependent endocytosis. <i>Virology</i> , 2008 , 377, 248-54	3.6	16
46	Influenza virus hemagglutinin spike neck architectures and interaction with model enzymes evaluated by MALDI-TOF mass spectrometry and bioinformatics tools. <i>Virus Research</i> , 2011 , 160, 294-304	6.4	15
45	Myristoylation of the arterivirus E protein: the fatty acid modification is not essential for membrane association but contributes significantly to virus infectivity. <i>Journal of General Virology</i> , 2009 , 90, 2704-2712	4.9	14
44	Two Cytoplasmic Acylation Sites and an Adjacent Hydrophobic Residue, but No Other Conserved Amino Acids in the Cytoplasmic Tail of HA from Influenza A Virus Are Crucial for Virus Replication. <i>Viruses</i> , 2015 , 7, 6458-75	6.2	13
43	S-acylation of influenza virus proteins: Are enzymes for fatty acid attachment promising drug targets?. <i>Vaccine</i> , 2015 , 33, 7002-7	4.1	12
42	Mutation of a raft-targeting signal in the transmembrane region retards transport of influenza virus hemagglutinin through the Golgi. <i>FEBS Letters</i> , 2012 , 586, 277-82	3.8	12
41	Molecular cloning, expression and characterization of the Canis familiaris interleukin-4. <i>Cytokine</i> , 2001 , 16, 88-92	4	12
40	Co-translational processing of glycoprotein 3 from equine arteritis virus: N-glycosylation adjacent to the signal peptide prevents cleavage. <i>Journal of Biological Chemistry</i> , 2013 , 288, 35396-405	5.4	11
39	Hemagglutinin of Influenza A, but not of Influenza B and C viruses is acylated by ZDHHC2, 8, 15 and 20. <i>Biochemical Journal</i> , 2020 , 477, 285-303	3.8	11
38	Biochemical characterization of the vacuolar palmitoyl acyltransferase. <i>FEBS Letters</i> , 2003 , 540, 101-5	3.8	10
37	Membrane targeting via protein palmitoylation. <i>Methods in Molecular Biology</i> , 1998 , 88, 227-39	1.4	10
36	The role of stearate attachment to the hemagglutinin-esterase-fusion glycoprotein HEF of influenza C virus. <i>Cellular Microbiology</i> , 2016 , 18, 692-704	3.9	10
35	Surfactants - Compounds for inactivation of SARS-CoV-2 and other enveloped viruses. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 55, 101479	7.6	10
34	Characterization of the self-palmitoylation activity of the transport protein particle component Bet3. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 2653-64	10.3	8
33	Snapshot of the evolution and mutation patterns of SARS-CoV-2 2020 ,		8
32	Palmitoylation of influenza virus proteins. <i>Berliner Und Munchener Tierarztliche Wochenschrift</i> , 2006 , 119, 112-22		8

31	Viruses as vesicular carriers of the viral genome: a functional module perspective. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010 , 1803, 507-19	4.9	7
30	Functional characterization of palmitoylated and nonacylated SNAP-25 purified from insect cells infected with recombinant baculovirus. <i>Molecular and Cellular Neurosciences</i> , 2003 , 23, 333-40	4.8	7
29	Emergence and adaptive evolution of Nipah virus. <i>Transboundary and Emerging Diseases</i> , 2020 , 67, 121-132	4.2	7
28	Signal peptide cleavage from GP3 enabled by removal of adjacent glycosylation sites does not impair replication of equine arteritis virus in cell culture, but the hydrophobic C-terminus is essential. <i>Virus Research</i> , 2014 , 183, 107-11	6.4	6
27	Influenza B, C and D Viruses (Orthomyxoviridae) 2021 , 561-574		6
26	Differential S-Acylation of Enveloped Viruses. <i>Protein and Peptide Letters</i> , 2019 , 26, 588-600	1.9	5
25	S-Acylation of Proteins. <i>Methods in Molecular Biology</i> , 2019 , 1934, 265-291	1.4	5
24	Influenza A virus nucleoprotein targets subnuclear structures. <i>Cellular Microbiology</i> , 2017 , 19, e12679	3.9	5
23	Intracellular interaction between syntaxin and Munc 18-1 revealed by fluorescence resonance energy transfer. <i>Molecular Membrane Biology</i> , 2005 , 22, 401-10	3.4	5
22	Modulation of cell surface transport and lipid raft localization by the cytoplasmic tail of the influenza virus hemagglutinin. <i>Cellular Microbiology</i> , 2016 , 18, 125-36	3.9	5
21	Adaption and parallel evolution of human-isolated H5 avian influenza viruses. <i>Journal of Infection</i> , 2020 , 80, 630-638	18.9	4
20	Mimicking the passage of avian influenza viruses through the gastrointestinal tract of chickens. <i>Veterinary Microbiology</i> , 2019 , 239, 108462	3.3	4
19	Mass spectrometry analysis of influenza virus reassortant clones does not reveal an influence of other viral proteins on S-acylation of hemagglutinin. <i>Archives of Virology</i> , 2013 , 158, 467-72	2.6	4
18	The complex co-translational processing of glycoprotein GP5 of type 1 porcine reproductive and respiratory syndrome virus. <i>Virus Research</i> , 2017 , 240, 112-120	6.4	4
17	Palmitoylation of the envelope membrane proteins GP5 and M of porcine reproductive and respiratory syndrome virus is essential for virus growth. <i>PLoS Pathogens</i> , 2021 , 17, e1009554	7.6	4
16	Amphipathic Helices of Cellular Proteins Can Replace the Helix in M2 of Influenza A Virus with Only Small Effects on Virus Replication. <i>Journal of Virology</i> , 2020 , 94,	6.6	4
15	Differences in signal peptide processing between GP3 glycoproteins of Arteriviridae. <i>Virology</i> , 2018 , 517, 69-76	3.6	4
14	Glycoprotein 3 of Porcine Reproductive and Respiratory Syndrome Virus Exhibits an Unusual Hairpin-Like Membrane Topology. <i>Journal of Virology</i> , 2018 , 92,	6.6	4

13	Folding and oligomerization of the gp2b/gp3/gp4 spike proteins of equine arteritis virus in vitro. <i>Viruses</i> , 2012 , 4, 414-23	6.2	3
12	Characterization of equine arteritis virus particles and demonstration of their hemolytic activity. <i>Archives of Virology</i> , 2008 , 153, 351-6	2.6	3
11	Analysis of S-acylation of proteins. <i>Methods in Molecular Biology</i> , 2002 , 194, 159-78	1.4	3
10	NS1-mediated upregulation of ZDHHC22 acyltransferase in influenza a virus infected cells. <i>Cellular Microbiology</i> , 2021 , 23, e13322	3.9	2
9	S-Acylation of Proteins of Coronavirus and Influenza Virus: Conservation of Acylation Sites in Animal Viruses and DHHC Acyltransferases in Their Animal Reservoirs. <i>Pathogens</i> , 2021 , 10,	4.5	2
8	Deacylation of influenza virus hemagglutinin does not affect the kinetics of low pH induced membrane fusion. <i>Pflugers Archiv European Journal of Physiology</i> , 1996 , 431, R257-8	4.6	1
7	Photoactivable Cholesterol as a Tool to Study Interaction of Influenza Virus Hemagglutinin with Cholesterol. <i>Bio-protocol</i> , 2020 , 10, e3523	0.9	1
6	Glycoprotein 3 of porcine reproductive and respiratory syndrome virus exhibits an unusual hairpin-like membrane topology		1
5	Cholesterol binding to the transmembrane region of a group 2 HA of Influenza virus is essential for virus replication affecting both virus assembly and HAß fusion activity		1
4	Amphipathic helices of cellular proteins can replace the helix in M2 of Influenza A virus with only small effects on virus replication		1
3	Emergence and adaptive evolution of influenza D virus. <i>Microbial Pathogenesis</i> , 2021 , 160, 105193	3.8	1
2	Structural and functional analysis of the roles of Influenza C virus membrane proteins in assembly and budding.. <i>Journal of Biological Chemistry</i> , 2022 , 101727	5.4	0
1	Attenuation of Getah virus by a single amino acid substitution at residue 253 of the E2 protein that might be part of a new heparan sulfate binding site on alphaviruses.. <i>Journal of Virology</i> , 2022 , jvi0175121	6.6	0